## 12 CLAIMS

## What is claimed is:

An imaging system comprising:
an imaging device assembled on a carrier; and

a first outwardly expandable element and a second outwardly expandable element mounted on said carrier, wherein said second expandable element is expandable both radially and axially, said imaging system comprising a mode of operation, wherein during expansion of said second expandable element, obstruction of the radial expansion of said second expandable element to propel said carrier and said imaging device axially.

- 2. The imaging system according to claim 1, wherein said first expandable element is fixed axially to said carrier, and said second expandable element is slidable axially relative to said carrier.
- 3. The imaging system according to claim 1, wherein said carrier is formed with first and second apertures in fluid communication with said first and second expandable elements, respectively.
- 4. The imaging system according to claim 3, further comprising a first supply tube disposed in said carrier in fluid communication with said first aperture, and a second supply tube disposed in said carrier in fluid communication with said second aperture.
- 5. The imaging system according to claim 1, wherein said first and second expandable elements are expandable to different shapes.
- 6. The imaging system according to claim 1, wherein said first expandable element is expandable substantially radially with negligible axial expansion.
- 7. The imaging system according to claim 1, wherein said second expandable element is expandable generally spherically.
- 8. The imaging system according to claim 1, wherein said imaging device is mounted at a distal end of said carrier, distally of said first and second expandable elements.
- 9. The imaging system according to claim 1, further comprising a light source disposed in said carrier.
- 10. The imaging system according to claim 1, further comprising a suction tube disposed in said carrier.
- 11. The imaging system according to claim 1, further comprising a tool lumen disposed in said carrier.

12. The imaging system according to claim 1, further comprising control wires disposed in said carrier.

- 13. The imaging system according to claim 1, further comprising a guide member disposed at a proximal end of said carrier.
- 14. The imaging system according to claim 1, further comprising a linear encoder disposed on said carrier, and a decoder operative to sense linear movement of said carrier with respect to said linear encoder.
- 15. An imaging system comprising:
  - a carrier comprising a fluid passageway;

an expandable element mounted on a distal portion of said carrier and in fluid communication with said fluid passageway, said expandable element comprising a flexible sleeve, wherein in a first orientation, said flexible sleeve is folded into itself, and in a second orientation fluid at least partially fills said flexible sleeve and at least partially unfolds said flexible sleeve, so as to extend said expandable element distally outwards from said carrier; and

an imaging device disposed in said expandable element.

16. An imaging system comprising:

a carrier comprising a fluid passageway;

a jet-action head mounted on a distal end of said carrier, said jet-action head being formed with fluid jet outlets facing a proximal end of said carrier, which are in fluid communication with said fluid passageway; and

an imaging device disposed in said jet-action head, wherein fluid expelled from said fluid jet outlets propels said imaging system.

- 17. The imaging system according to claim 16, wherein said jet-action head is expandable and contractible.
- 18. An imaging system comprising:

a carrier;

at least one traction member comprising a loop extending from said carrier; and an actuator in operative communication with said at least one traction member, said actuator moving said loop relative to said carrier.

- 19. The imaging system according to claim 18, wherein said loop has a helical shape that at least partially corkscrews around a periphery of said carrier.
- 20. The imaging system according to claim 18, wherein said loop protrudes from a side of said carrier and extends towards a proximal end of said carrier.

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21. The imaging system according to claim 18, wherein said loop protrudes from a side of said carrier and extends towards a distal end of said carrier.

- 22. The imaging system according to claim 18, wherein said loop is expandable and contractible.
- 23. The imaging system according to claim 18, further comprising an imaging device disposed in said carrier.
- 24. An imaging system comprising:
  - a carrier;
  - a percussion device mounted on a distal portion of said carrier; and an imaging device mounted on the distal portion of said carrier.
- 25. The imaging system according to claim 24, wherein said carrier comprises a guide member for a catheter-like procedure.
- 26. The imaging system according to any of the preceding claims, further comprising a magnet adapted to be attached to an object in a gastrointestinal tract.